

# 2007 Virginia / West Virginia Water Research Symposium

## "Connecting Management to Aquatic Communities"

### Workshops

All workshops scheduled Nov. 26-27 will be held at The Inn at Virginia Tech and Skelton Conference Center.

The Nov. 30 workshop will be held in Cheatham Hall, room 217.

Please visit [www.vwrrc.vt.edu/symposium2007](http://www.vwrrc.vt.edu/symposium2007) for more information.

#### Introduction to Fluvial Geomorphology

**Monday, Nov. 26 & Tuesday, Nov. 27 • 8:00am - 5:00pm •** Tess Wynn, Assistant Professor, *Virginia Tech* • W. Cully Hession, Associate Professor, *Virginia Tech* • **Fee: \$150**

This two day workshop will introduce participants to issues such as watershed hydrology, erosion and sediment fate and transport, stream classification, hydraulic geometry and regional curves, and linkages between fluvial morphology and aquatic ecosystems. Two field trips are included in the workshop's program.

#### An Overview of the TMDL Process

**Tuesday, Nov. 27 • 1:00pm - 5:00pm •** Panel of experts moderated by David Gruber, President, *Biological Monitoring, Inc.* • **Fee: \$60**

This comprehensive workshop will offer participants a guide to the TMDL process. Highlights of the discussion include regulatory and legal aspects of the TMDL program, stressor identifications for benthic impairments, and TMDL implementation plans. Specific issues relating to sediment impairments and permitting within TMDL watersheds will be presented. Alternatives such as a designated use attainability analysis will be discussed. The workshop will end with a group discussion.

#### Mixing Zone Analyses for TMDLs

**Tuesday, Nov. 27 • 1:00pm - 4:00pm •** Wu-Seng (Winston) Lung, Professor, *University of Virginia* • **Fee: \$60**

The workshop is designed for state regulatory staff (i.e., permit writers), consulting engineers, and stakeholders with an interest in this topic. The purpose of this workshop is to present a synthesis of quantitative methods for mixing zone analyses. A wide spectrum of currently available models for mixing zone calculations will be reviewed. The data requirement of these models will be summarized, and a model selection scheme will be presented.

#### Building Consensus for Revitalization of River, Land and Community

**Tuesday, Nov. 27 • 1:00pm - 3:00pm •** Frank Dukes, Director, *Institute for Environmental Negotiation, University of Virginia* • Phoebe Crisman, Urbanist and Associate Professor, *University of Virginia* • **Fee: \$60**

The starting point of this workshop is a revitalization planning effort for one of the most polluted areas on the Elizabeth River and the Chesapeake Bay - Money Point. Using a question and discussion format, the presenters will take participants through the planning process including challenges of leadership, the role of design, community involvement and consensus building, and planning.

#### Tools for Watershed Modeling and Assessment

**Friday, Nov. 30 • 8:00am - 1:00pm •** Michael Strager, Assistant Professor, *West Virginia University* • Jacquelyn Strager, Samuel Lamont, and Vishesh Maskey, *Natural Resource Analysis Center, West Virginia University* • **Fee: \$60**

This workshop demonstrates the capabilities and potential of the Watershed Modeling and Characterization System (WCMS), developed by the Natural Resource Analysis Center at West Virginia University. The WCMS runs within ESRI's ArcGIS 9.x GIS software platform and includes several hydrological and water quality modeling tools designed to aid in water resources management and assessment.



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